

**NEVADA DEPARTMENT OF
CONSERVATION & NATURAL RESOURCES**

STATE ENVIRONMENTAL COMMISSION

HEARING ARCHIVES FOR

REGULATORY PETITIONS

COMMISSION PETITION NO. 94013

LEGISLATIVE COUNSEL BUREAU (LCB) FILE NO. R-112-94

DOCUMENTS INCLUDED IN THIS FILE:

YES SECRETARY OF STATE FILING FORM

YES DISCLOSURE STATEMENT PURSUANT TO NRS 233B

REGULATORY PETITIONS

ORIGINAL DRAFTED BY COMMISSION

ADOPTED BY COMMISSION

YES AS FILED AND CODIFIED BY LCB

Secretary of State
Filing Data

For Filing Administrative
Regulations

For Emergency
Regulations Only

Effective Date _____

Expiration Date _____

Governor's Signature

Nevada State Environmental Commission

Classification [] Proposed [] Adopted By Agency [XX] Temporary [] Emergency []

Brief description of action: Petition 94013 (LCB R-112-94) is a permanent amendment to the Nevada Administrative Code 445.1341 through 445.13421, for revisions to the water quality standards on the Carson River from Stateline to Weeks. The petition revised the water quality standards for pH, total nitrogen, turbidity, total dissolved solids, chlorides and fecal coliform.

Authority citation other than 233B: NRS 445.201.

Notice date: May 18, 1994; May 19, 1994; July 12, 1994; July 20, 1994 and July 28, 1994.

Hearing date: August 11, 1994

Date of Adoption of Agency: August 11, 1994

**LEGISLATIVE REVIEW OF ADOPTED REGULATIONS AS REQUIRED
BY ADMINISTRATIVE PROCEDURES ACT, NRS 233B.066
PETITION 94013
LCB R-112-94**

The following statement is submitted for adopted permanent amendments to Nevada Administrative Code Chapter 445 by the State Environmental Commission (SEC).

1. A description of how public comment was solicited, a summary of public response, and an explanation how other interested persons may obtain a copy of the summary.

Petition 94013 was noticed five (5) times: Once for the Mason Valley News (May 18, 1994), the Record Courier, the Nevada Appeal and the Lahontan Valley News (May 19, 1994) and three times in the Las Vegas Review Journal (July 12, July 20 and July 28, 1994) and four times in the Reno Gazette-Journal (May 19, July 12, July 20 and July 28, 1994) newspapers. Comments and hearing minutes may be secured from the Office of the State Environmental Commission located in Carson City, Nevada at 333 W. Nye Lane, Room 128. No comments were received from the general public regarding this petition.

2. A description of how comment was solicited from affected businesses, a summary of their response, and a explanation how other interested persons may obtain a copy of the summary.

Comments were solicited from affected businesses by the notices in the newspapers, as outlined in #1. Comments and hearing minutes may be secured from the Office of the State Environmental Commission located in Carson City, Nevada at 333 W. Nye Lane, Room 128. No comments were received from the affected businesses.

3. If the regulation was adopted without changing any part of the proposed regulation, a summary of the reasons for adopting the regulation without change.

The permanent regulations were adopted at the SEC hearing on August 11, 1994 with no further comment.

4. The estimated economic effect of the regulation on the business which it is to regulate and on the public. These must be stated separately, and each case must include:

- (a) Both adverse and beneficial effects: and**
- (b) Both immediate and long-term effects.**

- a. The revisions are not expected to have any economic effect on the regulated community. The revisions are not expected to have any immediate or long term effects on the regulated community.
- b. There are no immediate or long-term economic effects on regulated sources. There are no immediate or long-term economic effects on the public.

5. The estimated cost to the agency for enforcement of the proposed regulation.

There is no additional cost to the agency for enforcement of the proposed regulation.

6. A description of any regulations of other state or government agencies which the proposed regulation overlaps or duplicates and a statement explaining why the duplication or overlapping is necessary.

There are no other state or government agency regulations which the proposed amendments duplicate.

**CODIFIED PERMANENT REGULATION OF THE
NEVADA STATE ENVIRONMENTAL COMMISSION
LCB File No. R112-94**

EXPLANATION--Matter in italics new; matter in brackets [] is material to be omitted.

AUTHORITY: NRS 445.201.

Petition **94013** was adopted by the Environmental Commission on August 11, 1994 as a permanent regulation and it became effective on September 15, 1994 upon filing with the Secretary of State by the Legislative Counsel Bureau (LCB) This is LCB file **R-112-94**.
Codified 11/21/94.

Section 1. NAC 445.1341 is hereby amended to read as follows:
445.1341

STANDARDS OF WATER QUALITY
Carson River

Control Point at the West Fork at the state line. The limits of this table apply only to the West Fork at the state line.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature EC - Maximum		Nov.-May: #13EC June: #17EC July: #21EC Aug.-Oct.: #22EC >T: #2EC	Aquatic life ^b and water contact recreation.
>T ^a	>T = 0EC		
pH Units	7.4 - 8.4	S.V.: [7.0 - 8.3] 6.5 - 9.0 >pH: ±0.5 Max.	Water contact recreation ^b , wildlife propaga- tion ^b , aquatic life, irrigation, stock watering, municipal or domestic supply and industrial supply.
Total Phosphates (as P) - mg/l	A-Avg.: #.016 S.V.: #.033	A-Avg.: #0.10	Aquatic life ^b , water contact recreation ^b , municipal or domestic supply and noncontact recreation.
Nitrogen Species (N) - mg/l	A-Avg.: #[0.5]0.4 S.V.: #[0.8]0.5	Nitrate S.V.: #10 Nitrite S.V.: #.06 Ammonia S.V.: #.02 (un-ionized)	Aquatic life ^b , municipal or domestic supply ^b , water contact recreation, stock watering, wild- life propagation and noncontact recreation.
Dissolved Oxygen - mg/l	-- --	S.V.: Nov.-May: \$6.0 Jun.-Oct.: \$5.0	Aquatic life ^b , water contact recreation, wild- life propagation, stock watering, municipal or domestic supply and noncontact recreation.
Suspended Solids - mg/l	A-Avg.: #15 --	S.V.: #25	Aquatic life ^b .
Turbidity - NTU	A-Avg.: #3 S.V.: #5	S.V.: #10	Aquatic life ^b and municipal or domestic supply.
Color - PCU	d	S.V.: #75	Municipal or domestic supply ^b .
Total Dissolved Solids - mg/l	A-Avg.: #70 S.V.: #[105]95	A-Avg.: #500	Municipal or domestic supply ^b , irrigation and stock watering.
Chlorides - mg/l	A-Avg.: #3 S.V.: #[8]5	S.V.: #250	Municipal or domestic supply ^b , wildlife prop- agation, irrigation and stock watering.
Sulfate - mg/l	-- S.V.: #4	S.V.: #250	Municipal or domestic supply ^b .
Sodium - SAR	A-Avg.: #1	A-Avg.: #8	Irrigation ^b and municipal or domestic supply.
Alkalinity (as CaCO3) - mg/l	-- --	less than 25% change from nat- ural conditions	Aquatic life ^b and wildlife propagation.
Fecal Coliform- No./100 ml	A.G.M.: #[110]105 --	#200/400 ^c	Water contact recreation ^b , noncontact rec- reation, municipal or domestic supply, irriga- tion, wildlife propagation and stock watering.

- Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.
- The most restrictive beneficial use.
- Based on the minimum of not less than 5 samples taken over a 30-day period, the fecal coliform bacterial level may not exceed a geometric mean of 200 per 100 ml nor may more than 10 percent of the total samples taken during any 30-day period exceed 400 per 100 ml.
- Increase in color must not be more than 10 PCU above natural conditions.

Petition **94013** was adopted by the Environmental Commission on August 11, 1994 as a permanent regulation and it became effective on September 15, 1994 upon filing with the Secretary of State by the Legislative Counsel Bureau (LCB) This is LCB file **R-112-94**.
Codified 11/21/94.

Sec. 2. NAC 445.13411 is hereby amended to read as follows:
445.13411

STANDARDS OF WATER QUALITY
Carson River

Control Point at Bryant Creek near the state line. The limits of this table apply only to Bryant Creek near the state line.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature EC - Maximum		Nov.-May: #13EC June: #17EC July: #21EC Aug.-Oct.: #22EC	Aquatic life ^b and water contact recreation.
>T ^a	>T = 0EC	>T: #2EC	
pH Units	-- --	S.V.: [7.0 - 8.3] 6.5 - 9.0 >pH: ±0.5 Max.	Water contact recreation ^b , wildlife propaga- tion ^b , aquatic life, irrigation, stock watering, municipal or domestic supply and industrial supply.
Total Phosphates (as P) - mg/l	A-Avg.: #.036 S.V.: #.05	A-Avg.: #0.10	Aquatic life ^b , water contact recreation ^b , municipal or domestic supply and noncontact recreation.
Nitrogen Species (N) - mg/l	A-Avg.: #0.6 S.V.: #1.0	Nitrate S.V.: #10 Nitrite S.V.: #.06 Ammonia S.V.: #.02 (un-ionized)	Aquatic life ^b , municipal or domestic supply ^b , water contact recreation, stock watering, wild- life propagation and noncontact recreation.
Dissolved Oxygen - mg/l	-- --	S.V.: Nov.-May: \$6.0 Jun.-Oct.: \$5.0	Aquatic life ^b , water contact recreation, wild- life propagation, stock watering, municipal or domestic supply and noncontact recreation.
Suspended Solids - mg/l	-- --	S.V.: #25	Aquatic life ^b .
Turbidity - NTU	-- --	S.V.: #10	Aquatic life ^b and municipal or domestic supply.
Color - PCU	d	S.V.: #75	Municipal or domestic supply ^b .
Total Dissolved Solids - mg/l	A-Avg.: #375 S.V.: #420	A-Avg.: #500	Municipal or domestic supply ^b , irrigation and stock watering.
Chlorides - mg/l	A-Avg.: #6 S.V.: #7	S.V.: #250	Municipal or domestic supply ^b , wildlife prop- agation, irrigation and stock watering.
Sulfate - mg/l	-- --	S.V.: #250	Municipal or domestic supply ^b .
Sodium - SAR	A-Avg.: #1	A-Avg.: #8	Irrigation ^b and municipal or domestic supply.
Alkalinity (as CaCO ₃) - mg/l	-- --	less than 25% change from nat- ural conditions	Aquatic life ^b and wildlife propagation.
Fecal Coliform- No./100 ml	A.G.M.: #50 S.V.: #90	#200/400 ^c	Water contact recreation ^b , noncontact rec- reation, municipal or domestic supply, irriga- tion, wildlife propagation and stock watering.

- a. Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.
- b. The most restrictive beneficial use.
- c. Based on the minimum of not less than 5 samples taken over a 30-day period, the fecal coliform bacterial level may not exceed a geometric mean of 200 per 100 ml nor may more than 10 percent of the total samples taken during any 30-day period exceed 400 per 100 ml.
- d. Increase in color must not be more than 10 PCU above natural conditions.

Petition **94013** was adopted by the Environmental Commission on August 11, 1994 as a permanent regulation and it became effective on September 15, 1994 upon filing with the Secretary of State by the Legislative Counsel Bureau (LCB) This is LCB file **R-112-94**.
Codified 11/21/94.

Sec. 3. NAC 445.13412 is hereby amended to read as follows:
445.13412

STANDARDS OF WATER QUALITY
Carson River

Control Point at the East Fork at the state line. The limits of this table apply only to the East Fork at the state line.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature EC - Maximum		Nov.-May: #13EC June: #17EC July: #21EC Aug.-Oct.: #22EC >T: #2EC	Aquatic life ^b and water contact recreation.
>T ^a	>T = 0EC		
pH Units	-- --	S.V.: [7.0 - 8.3] 6.5 - 9.0 >pH: ±0.5 Max.	Water contact recreation ^b , wildlife propaga- tion ^b , aquatic life, irrigation, stock watering, municipal or domestic supply and industrial supply.
Total Phosphates (as P) - mg/l	A-Avg.: #.03 S.V.: #.065	A-Avg.: #0.10	Aquatic life ^b , water contact recreation ^b , municipal or domestic supply and noncontact recreation.
Nitrogen Species (N) - mg/l	Total Nitrogen A-Avg.: #0.5 S.V.: #1.1	Nitrate S.V.: #10 Nitrite S.V.: #.06 Ammonia S.V.: #.02 (un-ionized)	Aquatic life ^b , municipal or domestic supply ^b , water contact recreation, stock watering, wild- life propagation and noncontact recreation.
Dissolved Oxygen - mg/l	-- --	S.V.: Nov.-May: \$6.0 Jun.-Oct.: \$5.0	Aquatic life ^b , water contact recreation, wild- life propagation, stock watering, municipal or domestic supply and noncontact recreation.
Suspended Solids - mg/l	-- --	S.V.: #25	Aquatic life ^b .
Turbidity - NTU	A-AVG.: #5 S.V.: #8	S.V.: #10	Aquatic life ^b and municipal or domestic supply.
Color - PCU	d	S.V.: #75	Municipal or domestic supply ^b .
Total Dissolved Solids - mg/l	A-Avg.: #145 S.V.: #185	A-Avg.: #500	Municipal or domestic supply ^b , irrigation and stock watering.
Chlorides - mg/l	A-Avg.: #3 S.V.: #5	S.V.: #250	Municipal or domestic supply ^b , wildlife prop- agation, irrigation and stock watering.
Sulfate - mg/l	-- S.V.: #3	S.V.: #250	Municipal or domestic supply ^b .
Sodium - SAR	A-Avg.: #2	A-Avg.: #8	Irrigation ^b and municipal or domestic supply.
Alkalinity (as CaCO3) - mg/l	-- --	less than 25% change from nat- ural conditions	Aquatic life ^b and wildlife propagation.
Fecal Coliform- No./100 ml	A.G.M.: #40 S.V.: #60	#200/400 ^e	Water contact recreation ^b , noncontact rec- reation, municipal or domestic supply, irriga- tion, wildlife propagation and stock watering.

- Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.
- The most restrictive beneficial use.
- Based on the minimum of not less than 5 samples taken over a 30-day period, the fecal coliform bacterial level may not exceed a geometric mean of 200 per 100 ml nor may more than 10 percent of the total samples taken during any 30-day period exceed 400 per 100 ml.
- Increase in color must not be more than 10 PCU above natural conditions.

Petition **94013** was adopted by the Environmental Commission on August 11, 1994 as a permanent regulation and it became effective on September 15, 1994 upon filing with the Secretary of State by the Legislative Counsel Bureau (LCB) This is LCB file **R-112-94**.
Codified 11/21/94.

Sec. 4 NAC 445.13413 is hereby amended to read as follows:
445.13413

STANDARDS OF WATER QUALITY
Carson River

Control Point for East Fork at Highway 395, South of Gardnerville (Riverview). The limits of this table apply from Riverview Mobile Home Park to the state line.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature EC - Maximum		Nov.-May: #13EC June: #17EC July: #21EC Aug.-Oct.: #22EC >T: #2EC	Aquatic life ^b and water contact recreation.
>T ^a	>T = 0EC		
pH Units	7.5 - 8.6	S.V.: [7.0 - 8.3] 6.5 - 9.0 >pH: ±0.5 Max.	Water contact recreation ^b , wildlife propaga- tion ^b , aquatic life, irrigation, stock watering, municipal or domestic supply and industrial supply.
Total Phosphates (as P) - mg/l	-- --	A-Avg.: #0.10	Aquatic life ^b , water contact recreation ^b , municipal or domestic supply and noncontact recreation.
Nitrogen Species (N) - mg/l	Total Nitrogen A-Avg.: #[0.5]0.4 S.V.: #[1.1]0.5	Nitrate S.V.: #10 Nitrite S.V.: #.06 Ammonia S.V.: #.02 (un-ionized)	Aquatic life ^b , municipal or domestic supply ^b , water contact recreation, stock watering, wild- life propagation and noncontact recreation.
Dissolved Oxygen - mg/l	-- --	S.V.: Nov.-May: \$6.0 Jun.-Oct.: \$5.0	Aquatic life ^b , water contact recreation, wild- life propagation, stock watering, municipal or domestic supply and noncontact recreation.
Suspended Solids - mg/l	-- --	S.V.: #80	Aquatic life ^b .
Turbidity - NTU	-- --	S.V.: #10	Aquatic life ^b and municipal or domestic supply.
Color - PCU	d	S.V.: #75	Municipal or domestic supply ^b .
Total Dissolved Solids - mg/l	A-Avg.: #120 S.V.: #175	A-Avg.: #500	Municipal or domestic supply ^b , irrigation and stock watering.
Chlorides - mg/l	A-Avg.: #6 S.V.: #[12]10	S.V.: #250	Municipal or domestic supply ^b , wildlife prop- agation, irrigation and stock watering.
Sulfate - mg/l	-- --	S.V.: #250	Municipal or domestic supply ^b .
Sodium - SAR	A-Avg.: #2	A-Avg.: #8	Irrigation ^b and municipal or domestic supply.
Alkalinity (as CaCO3) - mg/l	-- --	less than 25% change from nat- ural conditions	Aquatic life ^b and wildlife propagation.
Fecal Coliform- No./100 ml	A.G.M.: #20 S.V.: #85	#200/400 ^c	Water contact recreation ^b , noncontact rec- reation, municipal or domestic supply, irriga- tion, wildlife propagation and stock watering.

- Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.
- The most restrictive beneficial use.
- Based on the minimum of not less than 5 samples taken over a 30-day period, the fecal coliform bacterial level may not exceed a geometric mean of 200 per 100 ml nor may more than 10 percent of the total samples taken during any 30-day period exceed 400 per 100 ml.
- Increase in color must not be more than 10 PCU above natural conditions.

Petition **94013** was adopted by the Environmental Commission on August 11, 1994 as a permanent regulation and it became effective on September 15, 1994 upon filing with the Secretary of State by the Legislative Counsel Bureau (LCB) This is LCB file **R-112-94**.
Codified 11/21/94.

Sec. 5. NAC 445.13415 is hereby amended to read as follows:
445.13415

STANDARDS OF WATER QUALITY
Carson River

Control Point at the East Fork at Muller Lane. The limits of this table apply from the East Fork at Muller Lane to Highway 395, South of Gardnerville (Riverview Mobile Home Park).

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature EC - Maximum		Nov.-May: #13EC June: #17EC July: #21EC Aug.-Oct.: #22EC	Aquatic life ^b and water contact recreation.
>T ^a	>T = 0EC	>T: #2EC	
pH Units	7.4 -8.7	S.V.: [7.0 - 8.3] 6.5 - 9.0 >pH: ±0.5 Max.	Water contact recreation ^b , wildlife propaga- tion ^b , aquatic life, irrigation, stock watering, municipal or domestic supply and industrial supply.
Total Phosphates (as P) - mg/l	-- --	A-Avg.: #0.10	Aquatic life ^b , water contact recreation ^b , municipal or domestic supply and noncontact recreation.
Nitrogen Species (N) - mg/l	Total Nitrogen A-Avg.: #[0.6]0.5 S.V.: #[1.0]0.8	Nitrate S.V.:#10 Nitrite S.V.:#.06 Ammonia S.V.:#.02 (un-ionized)	Aquatic life ^b , municipal or domestic supply ^b , water contact recreation, stock watering, wild- life propagation and noncontact recreation.
Dissolved Oxygen - mg/l	-- --	S.V.: Nov.-May: \$6.0 Jun.-Oct.: \$5.0	Aquatic life ^b , water contact recreation, wild- life propagation, stock watering, municipal or domestic supply and noncontact recreation.
Suspended Solids - mg/l	-- --	S.V.: #80	Aquatic life ^b .
Turbidity - NTU	-- --	S.V.: #10	Aquatic life ^b and municipal or domestic supply.
Color - PCU	d	S.V.: #75	Municipal or domestic supply ^b .
Total Dissolved Solids - mg/l	A-Avg.: #[195]180 S.V.: #[235]205	A-Avg.: #500	Municipal or domestic supply ^b , irrigation and stock watering.
Chlorides - mg/l	A-Avg.: #8 S.V.: #[12]10	S.V.: #250	Municipal or domestic supply ^b , wildlife prop- agation, irrigation and stock watering.
Sulfate - mg/l	-- --	S.V.: #250	Municipal or domestic supply ^b .
Sodium - SAR	A-Avg.: #2	A-Avg.: #8	Irrigation ^b and municipal or domestic supply.
Alkalinity (as CaCO3) - mg/l	-- --	less than 25% change from nat- ural conditions	Aquatic life ^b and wildlife propagation.
Fecal Coliform- No./100 ml	A.G.M.: #[90]50 --	#200/400 ^c	Water contact recreation ^b , noncontact rec- reation, municipal or domestic supply, irriga- tion, wildlife propagation and stock watering.

- Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.
- The most restrictive beneficial use.
- Based on the minimum of not less than 5 samples taken over a 30-day period, the fecal coliform bacterial level may not exceed a geometric mean of 200 per 100 ml nor may more than 10 percent of the total samples taken during any 30-day period exceed 400 per 100 ml.
- Increase in color must not be more than 10 PCU above natural conditions.

Petition **94013** was adopted by the Environmental Commission on August 11, 1994 as a permanent regulation and it became effective on September 15, 1994 upon filing with the Secretary of State by the Legislative Counsel Bureau (LCB) This is LCB file **R-112-94**.
Codified 11/21/94.

Sec. 6. NAC 445.13416 is hereby amended to read as follows:
445.13416

STANDARDS OF WATER QUALITY
Carson River

Control Point at Genoa Lane. The limits of this table apply from Genoa Lane to the East Fork at Muller Lane and to the West Fork at the state line.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature EC - Maximum		Nov.-Apr.: #13EC May -June: #17EC Jul.-Oct.: #23EC	Aquatic life ^b and water contact recreation.
>T ^a	>T = 0EC	>T: #2EC	
pH Units	7.4 - 8.5	S.V.: [7.0 - 8.3] 6.5 - 9.0 >pH: ±0.5 Max.	Water contact recreation ^b , wildlife propaga- tion ^b , aquatic life, irrigation, stock watering, municipal or domestic supply and industrial supply.
Total Phosphates (as P) - mg/l	-- --	A-Avg.: #0.10	Aquatic life ^b , water contact recreation ^b , municipal or domestic supply and noncontact recreation.
Nitrogen Species (N) - mg/l	Total Nitrogen A-Avg.: #0.8 S.V.: #1.3	Nitrate S.V.: #10 Nitrite S.V.: #.06 Ammonia S.V.: #.02 (un-ionized)	Aquatic life ^b , municipal or domestic supply ^b , water contact recreation, stock watering, wild- life propagation and noncontact recreation.
Dissolved Oxygen - mg/l	-- --	S.V.: Nov.-May: \$6.0 Jun.-Oct.: \$5.0	Aquatic life ^b , water contact recreation, wild- life propagation, stock watering, municipal or domestic supply and noncontact recreation.
Suspended Solids - mg/l	-- --	S.V.: #80	Aquatic life ^b .
Turbidity - NTU	-- --	S.V.: #10	Aquatic life ^b and municipal or domestic supply.
Color - PCU	d	S.V.: #75	Municipal or domestic supply ^b .
Total Dissolved Solids - mg/l	A-Avg.: #165 S.V.: #[245]220	A-Avg.: #500	Municipal or domestic supply ^b , irrigation and stock watering.
Chlorides - mg/l	A-Avg.: #8 S.V.: #[15]12	S.V.: #250	Municipal or domestic supply ^b , wildlife prop- agation, irrigation and stock watering.
Sulfate - mg/l	-- --	S.V.: #250	Municipal or domestic supply ^b .
Sodium - SAR	A-Avg.: #2	A-Avg.: #8	Irrigation ^b and municipal or domestic supply.
Alkalinity (as CaCO3) - mg/l	-- --	less than 25% change from nat- ural conditions	Aquatic life ^b and wildlife propagation.
Fecal Coliform- No./100 ml	A.G.M.: #180 --	#200/400 ^c	Water contact recreation ^b , noncontact rec- reation, municipal or domestic supply, irriga- tion, wildlife propagation and stock watering.

- Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.
- The most restrictive beneficial use.
- Based on the minimum of not less than 5 samples taken over a 30-day period, the fecal coliform bacterial level may not exceed a geometric mean of 200 per 100 ml nor may more than 10 percent of the total samples taken during any 30-day period exceed 400 per 100 ml.
- Increase in color must not be more than 10 PCU above natural conditions.

Petition **94013** was adopted by the Environmental Commission on August 11, 1994 as a permanent regulation and it became effective on September 15, 1994 upon filing with the Secretary of State by the Legislative Counsel Bureau (LCB) This is LCB file **R-112-94**.
Codified 11/21/94.

Sec. 7. NAC 445.13417 is hereby amended to read as follows:
445.13417

STANDARDS OF WATER QUALITY
Carson River

Control Point at Cradlebaugh Bridge. The limits of this table apply from Cradlebaugh Bridge to Genoa Lane.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature EC - Maximum		Nov.-Apr.: #13EC May -June: #17EC Jul.-Oct.: #23EC	Aquatic life ^b and water contact recreation.
>T ^a	>T = 0EC	>T: #2EC	
pH Units	7.5 - 8.4	S.V.: [7.0 - 8.3] 6.5 - 9.0 >pH: ±0.5 Max.	Water contact recreation ^b , wildlife propaga- tion ^b , aquatic life, irrigation, stock watering, municipal or domestic supply and industrial supply.
Total Phosphates (as P) - mg/l	-- --	A-Avg.: #0.10	Aquatic life ^b , water contact recreation ^b , municipal or domestic supply and noncontact recreation.
Nitrogen Species (N) - mg/l	Total Nitrogen A-Avg.: #0.85 S.V.: #1.2	Nitrate S.V.: #10 Nitrite S.V.: #.06 Ammonia S.V.: #.02 (un-ionized)	Aquatic life ^b , municipal or domestic supply ^b , water contact recreation, stock watering, wild- life propagation and noncontact recreation.
Dissolved Oxygen - mg/l	-- --	S.V.: Nov.-May: \$6.0 Jun.-Oct.: \$5.0	Aquatic life ^b , water contact recreation, wild- life propagation, stock watering, municipal or domestic supply and noncontact recreation.
Suspended Solids - mg/l	-- --	S.V.: #80	Aquatic life ^b .
Turbidity - NTU	-- --	S.V.: #10	Aquatic life ^b and municipal or domestic supply.
Color - PCU	d	S.V.: #75	Municipal or domestic supply ^b .
Total Dissolved Solids - mg/l	A-Avg.: #180 S.V.: #230	A-Avg.: #500	Municipal or domestic supply ^b , irrigation and stock watering.
Chlorides - mg/l	A-Avg.: #8 S.V.: #15	S.V.: #250	Municipal or domestic supply ^b , wildlife prop- agation, irrigation and stock watering.
Sulfate - mg/l	-- --	S.V.: #250	Municipal or domestic supply ^b .
Sodium - SAR	A-Avg.: #2	A-Avg.: #8	Irrigation ^b and municipal or domestic supply.
Alkalinity (as CaCO3) - mg/l	-- --	less than 25% change from nat- ural conditions	Aquatic life ^b and wildlife propagation.
Fecal Coliform- No./100 ml	A.G.M.: #195 --	#200/400 ^c	Water contact recreation ^b , noncontact rec- reation, municipal or domestic supply, irriga- tion, wildlife propagation and stock watering.

- Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.
- The most restrictive beneficial use.
- Based on the minimum of not less than 5 samples taken over a 30-day period, the fecal coliform bacterial level may not exceed a geometric mean of 200 per 100 ml nor may more than 10 percent of the total samples taken during any 30-day period exceed 400 per 100 ml.
- Increase in color must not be more than 10 PCU above natural conditions.

Petition **94013** was adopted by the Environmental Commission on August 11, 1994 as a permanent regulation and it became effective on September 15, 1994 upon filing with the Secretary of State by the Legislative Counsel Bureau (LCB) This is LCB file **R-112-94**.
Codified 11/21/94.

Sec. 8. NAC 445.13418 is hereby amended to read as follows:
445.13418

STANDARDS OF WATER QUALITY
Carson River

Control Point at Mexican Ditch Gage. The limits of this table apply from Mexican Ditch Gage to Highway 395, at Cradlebaugh Bridge.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature EC - Maximum		Nov.-Apr.: #13EC May -June: #17EC Jul.-Oct.: #23EC	Aquatic life ^b and water contact recreation.
>T ^a	>T = 0EC	>T: #2EC	
pH Units	7.4 - 8.5	S.V.: [7.0 - 8.3] 6.5 - 9.0 >pH: ±0.5 Max.	Water contact recreation ^b , wildlife propaga- tion ^b , aquatic life, irrigation, stock watering, municipal or domestic supply and industrial supply.
Total Phosphates (as P) - mg/l	-- --	A-Avg.: #0.10	Aquatic life ^b , water contact recreation ^b , municipal or domestic supply and noncontact recreation.
Nitrogen Species (N) - mg/l	Total Nitrogen A-Avg.: #[1.1]0.8 S.V.: #[1.7]1.3	Nitrate S.V.: #10 Nitrite S.V.: #.06 Ammonia S.V.: #.02 (un-ionized)	Aquatic life ^b , municipal or domestic supply ^b , water contact recreation, stock watering, wild- life propagation and noncontact recreation.
Dissolved Oxygen - mg/l	-- --	S.V.: Nov.-May: \$6.0 Jun.-Oct.: \$5.0	Aquatic life ^b , water contact recreation, wild- life propagation, stock watering, municipal or domestic supply and noncontact recreation.
Suspended Solids - mg/l	-- --	S.V.: #80	Aquatic life ^b .
Turbidity - NTU	-- --	S.V.: #10	Aquatic life ^b and municipal or domestic supply.
Color - PCU	d	S.V.: #75	Municipal or domestic supply ^b .
Total Dissolved Solids - mg/l	A-Avg.: #285 S.V.: #360	A-Avg.: #500	Municipal or domestic supply ^b , irrigation and stock watering.
Chlorides - mg/l	A-Avg.: #17 S.V.: #23	S.V.: #250	Municipal or domestic supply ^b , wildlife prop- agation, irrigation and stock watering.
Sulfate - mg/l	A-Avg.: #24 S.V.: #100	S.V.: #250	Municipal or domestic supply ^b .
Sodium - SAR	A-Avg.: #2	A-Avg.: #8	Irrigation ^b and municipal or domestic supply.
Alkalinity (as CaCO3) - mg/l	-- --	less than 25% change from nat- ural conditions	Aquatic life ^b and wildlife propagation.
Fecal Coliform- No./100 ml	A.G.M.: #[135]110 S.V.: #295	#200/400 ^c	Water contact recreation ^b , noncontact rec- reation, municipal or domestic supply, irriga- tion, wildlife propagation and stock watering.

- Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.
- The most restrictive beneficial use.
- Based on the minimum of not less than 5 samples taken over a 30-day period, the fecal coliform bacterial level may not exceed a geometric mean of 200 per 100 ml nor may more than 10 percent of the total samples taken during any 30-day period exceed 400 per 100 ml.
- Increase in color must not be more than 10 PCU above natural conditions.

Petition **94013** was adopted by the Environmental Commission on August 11, 1994 as a permanent regulation and it became effective on September 15, 1994 upon filing with the Secretary of State by the Legislative Counsel Bureau (LCB) This is LCB file **R-112-94**.
Codified 11/21/94.

Sec. 9. NAC 445.1342 is hereby amended to read as follows:
445.1342

STANDARDS OF WATER QUALITY
Carson River

Control Point near New Empire. The limits of this table apply from New Empire to the Mexican Ditch Gage.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature EC - Maximum		Nov.-May: #18EC June-Oct.: #23EC	Aquatic life ^b and water contact recreation.
>T ^a	>T = 0EC	>T: #2EC	
pH Units	7.4 - 8.4	S.V.: [7.0 - 8.3] 6.5 - 9.0 >pH: ±0.5 Max.	Water contact recreation ^b , wildlife propaga- tion ^b , aquatic life, irrigation, stock watering, municipal or domestic supply and industrial supply.
Total Phosphates (as P) - mg/l	-- --	A-Avg.: #0.10	Aquatic life ^b , water contact recreation ^b , municipal or domestic supply and noncontact recreation.
Nitrogen Species (N) - mg/l	Total Nitrogen A-Avg.: #[1.7]1.3 S.V.: #[3.5]1.7	Nitrate S.V.: #10 Nitrite S.V.: #.06 Ammonia S.V.: #.02 (un-ionized)	Aquatic life ^b , municipal or domestic supply ^b , water contact recreation, stock watering, wild- life propagation and noncontact recreation.
Dissolved Oxygen - mg/l	-- --	S.V.: \$5.0	Aquatic life ^b , water contact recreation, wild- life propagation, stock watering, municipal or domestic supply and noncontact recreation.
Suspended Solids - mg/l	-- --	S.V.: #80	Aquatic life ^b .
Turbidity - NTU	-- --	S.V.: #10	Aquatic life ^b and municipal or domestic supply.
Color - PCU	d	S.V.: #75	Municipal or domestic supply ^b .
Total Dissolved Solids - mg/l	A-Avg.: #260 S.V.: #375	A-Avg.: #500	Municipal or domestic supply ^b , irrigation and stock watering.
Chlorides - mg/l	A-Avg.: #13 S.V.: #24	S.V.: #250	Municipal or domestic supply ^b , wildlife prop- agation, irrigation and stock watering.
Sulfate - mg/l		S.V.: #250	Municipal or domestic supply ^b .
Sodium - SAR	A-Avg.: #2	A-Avg.: #8	Irrigation ^b and municipal or domestic supply.
Alkalinity (as CaCO3) - mg/l	-- --	less than 25% change from nat- ural conditions	Aquatic life ^b and wildlife propagation.
Fecal Coliform- No./100 ml	A.G.M.: #170	#200/400 ^c	Water contact recreation ^b , noncontact rec- reation, municipal or domestic supply, irriga- tion, wildlife propagation and stock watering.

- Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.
- The most restrictive beneficial use.
- Based on the minimum of not less than 5 samples taken over a 30-day period, the fecal coliform bacterial level may not exceed a geometric mean of 200 per 100 ml nor may more than 10 percent of the total samples taken during any 30-day period exceed 400 per 100 ml.
- Increase in color must not be more than 10 PCU above natural conditions.

Petition **94013** was adopted by the Environmental Commission on August 11, 1994 as a permanent regulation and it became effective on September 15, 1994 upon filing with the Secretary of State by the Legislative Counsel Bureau (LCB) This is LCB file **R-112-94**.
Codified 11/21/94.

Sec. 10. 445.134205 is hereby amended to read as follows:
445.134205

STANDARDS OF WATER QUALITY
Carson River

Control Point at Dayton Bridge. The limits of this table apply from Dayton Bridge to New Empire.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature EC - Maximum		Nov.-Mar.: #11EC Apr.-Jun.: #24EC Jul.-Oct.: #28EC	Aquatic life ^b and water contact recreation.
>T ^a	>T = 0EC	>T: #2EC	
pH Units	7.5 -8.6	S.V.: [7.0 - 8.3] 6.5 - 9.0 >pH: ±0.5 Max.	Water contact recreation ^b , wildlife propaga- tion ^b , aquatic life, irrigation, stock watering, municipal or domestic supply and industrial supply.
Total Phosphates (as P) - mg/l	-- --	A-Avg.: #0.1	Aquatic life ^b , water contact recreation ^b , municipal or domestic supply and noncontact recreation.
Nitrogen Species (N) - mg/l	Total Nitrogen A-Avg.: #1.2 S.V.: #1.6	Nitrate S.V.:#10 Nitrite S.V.:#1.0 Ammonia S.V.:#.02 (un-ionized)	Aquatic life ^b , municipal or domestic supply ^b , water contact recreation, stock watering, wild- life propagation and noncontact recreation.
Dissolved Oxygen - mg/l	-- --	S.V.: \$5.0	Aquatic life ^b , water contact recreation, wild- life propagation, stock watering, municipal or domestic supply and noncontact recreation.
Suspended Solids - mg/l	-- --	S.V.: #80	Aquatic life ^b .
Turbidity - NTU	A-Avg.: #12 S.V.: #25	S.V.: #50	Aquatic life ^b and municipal or domestic supply.
Color - PCU	d	S.V.: #75	Municipal or domestic supply ^b .
Total Dissolved Solids - mg/l	A-Avg.: #250 S.V.: #400	A-Avg.: #500	Municipal or domestic supply ^b , irrigation and stock watering.
Chlorides - mg/l	A-Avg.: #10 S.V.: #18	S.V.: #250	Municipal or domestic supply ^b , wildlife prop- agation, irrigation and stock watering.
Sulfate - mg/l	-- --	S.V.: #250	Municipal or domestic supply ^b .
Sodium - SAR	A-Avg.: #2	A-Avg.: #8	Irrigation ^b and municipal or domestic supply.
Alkalinity (as CaCO3) - mg/l	-- --	less than 25% change from nat- ural conditions	Aquatic life ^b and wildlife propagation.
Fecal Coliform- No./100 ml	A.G.M.: #[70]50 S.V.: #280	#200/400 ^c	Water contact recreation ^b , noncontact rec- reation, municipal or domestic supply, irriga- tion, wildlife propagation and stock watering.

- Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.
- The most restrictive beneficial use.
- Based on the minimum of not less than 5 samples taken over a 30-day period, the fecal coliform bacterial level may not exceed a geometric mean of 200 per 100 ml nor may more than 10 percent of the total samples taken during any 30-day period exceed 400 per 100 ml.
- Increase in color must not be more than 10 PCU above natural conditions.

Petition **94013** was adopted by the Environmental Commission on August 11, 1994 as a permanent regulation and it became effective on September 15, 1994 upon filing with the Secretary of State by the Legislative Counsel Bureau (LCB) This is LCB file **R-112-94**.
Codified 11/21/94.

Sec. 11. NAC 445.13421 is hereby amended to read as follows:
445.13421

STANDARDS OF WATER QUALITY
Carson River

Control Point at Weeks (Ft. Churchill). The limits of this table apply from the U.S. Highway 95 Bridge at Weeks to the Dayton Bridge.

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	BENEFICIAL USES
Temperature EC - Maximum		Nov.-Mar.: #11EC Apr.-Jun.: #24EC Jul.-Oct.: #28EC	Aquatic life ^b and water contact recreation.
>T ^a	>T = 0EC	>T: #2EC	
pH Units	7.5 - 8.5	S.V.: [7.0 - 8.3] 6.5 - 9.0 >pH: ±0.5 Max.	Water contact recreation ^b , wildlife propaga- tion ^b , aquatic life, irrigation, stock watering, municipal or domestic supply and industrial supply.
Total Phosphates (as P) - mg/l	-- --	A-Avg.: #0.1	Aquatic life ^b , water contact recreation ^b , municipal or domestic supply and noncontact recreation.
Nitrogen Species (N) - mg/l	Total Nitrogen A-Avg.: #[1.4]0.6 S.V.: #[1.8]1.1	Nitrate S.V.: #10 Nitrite S.V.: #1.0 Ammonia S.V.: #.02 (un-ionized)	Aquatic life ^b , municipal or domestic supply ^b , water contact recreation, stock watering, wild- life propagation and noncontact recreation.
Dissolved Oxygen - mg/l	-- --	S.V.: \$5.0	Aquatic life ^b , water contact recreation, wild- life propagation, stock watering, municipal or domestic supply and noncontact recreation.
Suspended Solids - mg/l	-- --	S.V.: #80	Aquatic life ^b .
Turbidity - NTU	A-Avg.: #[36]25	S.V.: #50	Aquatic life ^b and municipal or domestic supply.
Color - PCU	d	S.V.: #75	Municipal or domestic supply ^b .
Total Dissolved Solids - mg/l	A-Avg.: #250 S.V.: #[415]380	A-Avg.: #500	Municipal or domestic supply ^b , irrigation and stock watering.
Chlorides - mg/l	A-Avg.: #10 S.V.: #18	S.V.: #250	Municipal or domestic supply ^b , wildlife prop- agation, irrigation and stock watering.
Sulfate - mg/l	A-Avg.: #100 S.V.: #140	S.V.: #250	Municipal or domestic supply ^b .
Sodium - SAR	A-Avg.: #2	A-Avg.: #8	Irrigation ^b and municipal or domestic supply.
Alkalinity (as CaCO3) - mg/l	-- --	less than 25% change from nat- ural conditions	Aquatic life ^b and wildlife propagation.
Fecal Coliform- No./100 ml	A.G.M.: #90 S.V.: #240	#200/400 ^c	Water contact recreation ^b , noncontact rec- reation, municipal or domestic supply, irriga- tion, wildlife propagation and stock watering.

- Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.
- The most restrictive beneficial use.
- Based on the minimum of not less than 5 samples taken over a 30-day period, the fecal coliform bacterial level may not exceed a geometric mean of 200 per 100 ml nor may more than 10 percent of the total samples taken during any 30-day period exceed 400 per 100 ml.
- Increase in color must not be more than 10 PCU above natural conditions.

END OF PETITION 94013 (LCB R112-94)

Petition **94013** was adopted by the Environmental Commission on August 11, 1994 as a permanent regulation and it became effective on September 15, 1994 upon filing with the Secretary of State by the Legislative Counsel Bureau (LCB) This is LCB file **R-112-94**.
Codified 11/21/94.